

NWS FORM E-5
(11-88)
(PRES. BY WSOM E-41)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA (HSA)

WFO Jackson, Mississippi

MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS

REPORT FOR:

MONTH

YEAR

November

2002

TO: Hydrometeorological Information Center, W/OH2
NOAA / National Weather Service
1325 East West Highway, Room 7230
Silver Spring, MD 20910-3283

SIGNATURE

Alan Gerard, MIC
In Charge of HSA

DATE

December 16th , 2002

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (WSOME-41)

November 2002 was vastly different from last November. The first half of the month was wet while the remainder of the month was much drier. Last November, we were experiencing near drought conditions during the first 3 weeks of the month and extremely wet conditions over the final week, especially over the Yazoo River System.

The most significant rainfall occurred during the first week of the month. A series of gulf low pressure systems moved along a stationary boundary that lay across southern Louisiana from the 3rd to the 5th. Some of the heaviest 1 day rainfall totals occurred between the 3rd and the 5th. The heaviest rainfall amounts occurred at Larto Lake, LA 4.10 inches (4th). Other heavy amounts: 3.30 inches at Red River Lock #1, LA (4th); 3.25 inches at Jonesville Lock & dam, LA (4th); 3.10 inches at Winnsboro, LA (5th); 2.90 inches at Rayville, LA (5th).

For the remainder of the month, a series of cold fronts moved across the HSA. From the 11th to 13th, a cold front and an associated gulf low moved through the area producing rainfall from less than .25 inches to near 1.50 inches over southern sections. A cold front also moved through the area on the 15th and 16th. Rainfall amounts were around 1 inch or less with the heaviest rainfall in south and southeast sections. Another cold front pushed across the area from the 18th to the 20th producing .50 inches or less in southeast sections of Mississippi. Near the end of the month a fast moving cold front pushed through the area, rainfall amounts were scattered throughout the HSA with amounts .25 inches or less.

At the beginning of the month, much above normal soil moisture conditions were observed over most all of the HSA. Even with below normal rainfall over many sections of the HSA during the month, soil moisture conditions remain abnormally high. Minor river flooding was observed early in the month on the upper and lower Pearl River, Yalobusha, and the upper and middle Big Black. Flood potential for HSA rivers should remain high over the next several months. See the November E-3 report for information on flood crests. Rainfall for the month of November:

<u>RIVER BASIN</u>	<u>RAINFALL</u>	<u>DEPARTURE FROM NORMS</u>
<i>Southeast Arkansas (Chicot & Ashley counties)</i>	<i>4.00 to 5.00 inches</i>	<i>Below normal over Ashley and near normal over Chicot.</i>
<i>Northeast Louisiana (Tensas, Boeuf, Bayou Macon & Lower Ouachita)</i>	<i>4.00 to 5.00 inches northern sections</i> <i>4.50 to 5.75 inches central sections</i> <i>5.50 to 7.25 inches southern section</i>	<i>Below to near normal.</i> <i>Near normal to above normal.</i> <i>Near normal to much above normal.</i>
<i>Lower Yazoo</i>	<i>3.50 to 5.00 inches</i>	<i>Below normal.</i>
<i>Big Black</i>	<i>5.50 to 7.50 inches upper</i> <i>4.00 to 4.50 inches lower and middle sections</i>	<i>Above to much above normal.</i> <i>Below to near normal.</i>
<i>Homochitto/ Bayou Pierre</i>	<i>4.00 to 6.50 inches</i>	<i>Above normal over Bayou Pierre to below normal over the Homochitto.</i>
<i>Pearl (abv Jackson)</i>	<i>2.25 to 3.50 inches</i>	<i>Below to much below normal.</i>
<i>Pearl (Blo Jackson)</i>	<i>3.00 to 5.00 inches</i>	<i>Below to near normal.</i>
<i>Pascagoula</i>	<i>4.00 to 5.25 inches over the Leaf basin.</i> <i>4.00 to 4.50 inches over the Black Creek basin.</i> <i>3.25 to 4.00 inches over the Chickasawhay</i>	<i>Below to near normal.</i> <i>Below normal.</i> <i>Below normal.</i>
<i>Tombigbee tributaries in the JAN HSA</i>	<i>2.00 to 6.00 inches</i>	<i>Above normal in northeast sections of the HSA to below normal over east central tributaries.</i>

The heaviest rainfall amounts in the HSA for the month were: 7.73 inches at Larto Lake, LA; 7.53 inches at Ackerman, MS; 7.05 inches at Oakley Experimental Station in Hinds County, MS; 7.04 inches at Jonesville L/D, LA; 6.72 inches at Clayton, LA; 6.21 inches at Tibbee, MS; 6.19 inches at Red River Lock & Dam, LA; 6.15 inches at Pickens, MS.

Here at the Jackson WFO, the November monthly rainfall was 4.17 inches, which was 0.87 inches above normal. Ending November 30th, we have had 62.12 inches of rain thus far this year, which is 11.51 inches above normal. The Fall of 2002 in Jackson, MS was the 2nd wettest on record with 20.97 inches. Since September 1st, only the Fall of 1906 was wetter with 23.31 inches.

At the Meridian Airport, the November monthly rainfall was 3.34 inches, which was 1.61 inches below normal. Ending November 30th, Meridian has had 50.01 inches of rain thus far this year, which is 3.33 inches below normal.

The Mississippi River from Arkansas City, AR to Natchez, MS had 2 peaks during the month with the highest occurring during the last 11 days of the month. After the second peak, the river continued to fall during the remainder of the month. Stages were below seasonal norms for the first and last week of the month at Arkansas City and Greenville while above season norms were noted at Vicksburg and Natchez for the entire month. The provisional high and low stages for November are listed below:

Location	High Stage(ft)	Date	Low Stage(ft)	Date
Arkansas City, AR	14.81	11/19	5.20	11/03
Greenville, MS	26.24	11/20	16.29	11/03
Vicksburg, MS	20.03	11/21	10.24	11/04
Natchez, MS	27.20	11/22	19.30	11/04

Total Flood Warning products issued: 9

Total Flood Statement products issued: 98

Daily Rainfall Products (RRA'S) issued 30

Daily River Forecast Products (RVS'S) issued 30

Daily River Stage products (RVA'S) issued 30

Marty V. Pope
Service Hydrologist

Note: Stage and precipitation data was furnished with cooperation from Mississippi, Louisiana, and Arkansas, N.W.S. Cooperative Observers, United States Geological Survey, United States Army Corps of Engineers and the Pearl River Valley Water Supply District, Pat Harrison Waterway District, and the Mississippi Department of Environmental Quality.

cc: USGS Little Rock District
USGS Ruston District
USCE Mobile District
USCE Vicksburg District
USCE Mississippi Valley Division
USGS Mississippi District
SRH Climate, Weather and Water Division
LMRFC
Pearl River Valley Water Supply District
Hydrologic Information Center
Southern Region Climate Center
Pat Harrison Waterway District